

MANUFACTURING SYSTEM WITH INTRINSICALLY SAFE ELECTRIC INFORMATION STORAGE

ABSTRACT OF THE DISCLOSURE

The present invention is a manufacturing system including a hazard zone and a non-hazard zone. The system includes a storage device, located in the hazard zone, for electrically storing information. The system further includes a communication device, also located in the hazard zone, for storing information to and reading information from the storage device. In the non-hazard zone, a controller is in electrical communication with the communication device. The controller controls the system based on information read from the storage device by the communication device. To limit electrical energy passing to the communication device, an intrinsic safety barrier located in the non-hazard zone is connected between the communication device and the controller device.